

# In-class pop quiz#4 Apr 20, 2026

1. The planet with the largest mass is \_\_\_\_\_, and the planet with the fastest spin is \_\_\_\_\_.
  - a. Jupiter; Saturn
  - b. Jupiter; Jupiter
  - c. Saturn; Neptune
  - d. Saturn; Earth
  - e. Neptune; Jupiter
  
2. Through a large telescope, Uranus and Neptune have a \_\_\_\_\_ color because of \_\_\_\_\_.
  - a. green; emission of green light by methane gas
  - b. green; absorption of red light by methane gas
  - c. white; reflection of Sunlight by the clouds
  - d. white; emission of all wavelengths by hydrogen
  - e. yellow; emission lines from gases in the atmosphere
  
3. The material on Earth that comes closest to reflecting sunlight the same way that Saturn's rings reflect sunlight is
  - a. rock.
  - b. hydrogen.
  - c. oxygen.
  - d. very cold water ice.

## PQ4 –Contd.

4. **Which is the method for finding extra-solar planets ?**
- a. Doppler shift of spectral lines due to radial velocity.
  - b. Planetary transit across the host star
  - c. Gravitational micro-lensing of star light due to planetary orbit
  - d. None of the above
  - e. All of the above
5. The belts and zones seen in Jupiter's atmosphere are regions where
- a. gases turn to liquids and liquids turn to gases.
  - b. bumps on the surface protrude above the atmosphere.
  - c. hot gas rises from the interior and cold gas sinks.
  - d. there is no wind.